



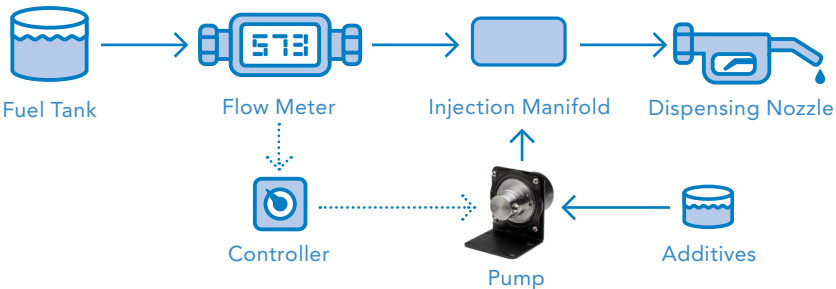
Fuel Additive Injection

Fuel can be improved, changed or enhanced through the addition of fuel additives according to specific performance and usage requirements.

TYPICAL EXAMPLES INCLUDE:

- ▶ Refining additives
- ▶ Detergent additives to keep fuel injectors clean
- ▶ Color dyes to identify fuel grades
- ▶ Lead-based additives for aviation
- ▶ Corrosion inhibitors
- ▶ Lubricants for extended engine and pump life
- ▶ Anti-icing additives for jet fuel
- ▶ Static dissipater additives

NOTE: Additives can be added at the rack in a distribution terminal, at a service station style dispenser, or into the fuel stream dispensed from a delivery truck.



Micropump pumps deliver smooth, controlled flows of fuel additive into a fuel dispensing system.

PUMPING REQUIREMENTS	MICROPUMP SOLUTIONS
FLOW RATE: 0.5 to 10 L/min (7.925 to 158.5 USG/hr)	We have variable speed pumps for this application with flows from 0.131 to 13.9 L/min (2.1 to 221 USG/hr)
CHEMICAL RESISTANT TO HYDROCARBONS	Our chemically resistant construction materials stand up to the aggressive fluids found in fuel additives
PRECISE, METERED FLOW CONTROL	Our gear pumps with variable speed DC drives provide precise flow control
SMOOTH, PULSELESS FLOW	Gear pumps offer the virtually pulseless flow required for in-flow additive dispense
RELIABILITY	Our precision design and manufactured gears stand the test of rugged use
LEAK FREE	Our magnetic drives eliminates dynamic shaft seals, keeping fluid securely inside the pump and potential contaminants out
MAINTAINABILITY	We offer Service Kits for easy field serviceability

MICROPUMP PRODUCTS OPTIMIZED FOR THIS APPLICATION

Micropump “suction shoe” style pumps are commonly used for this application. Series GB are best suited for lower flows, and Series GC for higher flows. Suction Shoe style gear pumps provide more consistent flow with varying differential pressure, and extended pump wear, than standard cavity style gear pumps. Suction shoe pumps also perform better with wide ranging temperature changes than cavity style pumps. Our integrated electromagnet EagleDrive™ provides variable, precise flow control in an energy efficient and compact package.



SERIES GB

MAGNETIC DRIVE GEAR PUMP

FLOW RATE: 0.131 to 6.4 L/min (2.1 to 102 USG/hr)
MAX DIFFERENTIAL PRESSURE: 125 psi (8.6 Bar)
MAX SYSTEM PRESSURE: 300 psi (21 Bar)
WETTED MATERIALS: 316SS, PEEK, PSS, Viton®, Kalrez®
DRIVES: EagleDrive™ (Electromagnetic, DC Brushless) and other Micropump drive mounts



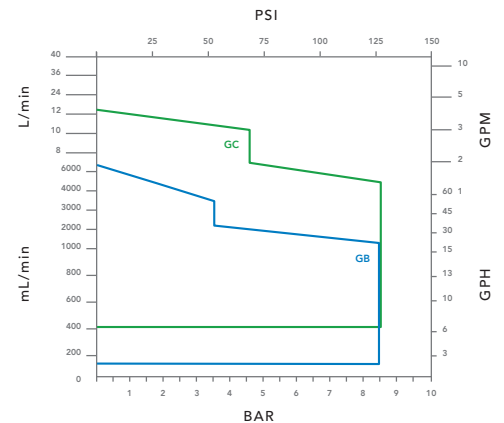
SERIES GC

MAGNETIC DRIVE GEAR PUMP

FLOW RATE: 0.405 to 13.9L/min (6.4 to 221 USG/hr)
MAX DIFFERENTIAL PRESSURE: 125 psi (8.6 Bar)
MAX SYSTEM PRESSURE: 1500 psi (103 Bar)
WETTED MATERIALS: 316SS, PEEK, PPS, Viton®, Kalrez®
DRIVES: NEMA, IEC, drive mounts

PERFORMANCE SUMMARY

This chart indicates optimal operating ranges for recommended products.



MICROPUMP ADVANTAGE

The unparalleled quality, performance record, reliability and long operating life of Micropump pumps and our extensive engineering expertise make Micropump a vital partner in this demanding market.



Micropump, Inc | A Unit of IDEX Corp. | 1402 NE 136th Avenue • Vancouver, WA 98684

T 800.671.6269 • +1.360.253.2008 | F +1.360.253.8294 | info.micropump@idexcorp.com | www.micropump.com

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